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	Application No.	Applicant(s)	Ψ
Notice of Allowability	10/671,517 Examiner	AKAMA, FUMIO Art Unit	
	Ishwar (I. B.) Patel	2841	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	this application. If not include inication will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>July 6, 2005 and int</u>	erview summary.		
2. 🔀 The allowed claim(s) is/are <u>1 and 3</u> .			
3. \boxtimes The drawings filed on <u>06 July 2005</u> are accepted by the E	Examiner.	•	
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have all the priori	ve been received. ve been received in Applicatio	n No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the red	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi			OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") me	ust be submitted.		·
(a) ☐ including changes required by the Notice of Draftspe	rson's Patent Drawing Reviev	v (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_•	,	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			back) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT.			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 6. ⊠ Interview S	formal Patent Application (PT ummary (PTO-413), Mail Date <u>0705</u> .	O-152)
Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date		Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allo	owance
of Biological Material	9. 🔲 Other	÷	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Matthew E. Mulkeen (Reg. 44,250) on July 21, 2005.

The application has been amended as follows:

Claim 1 (currently amended):

A multilayered circuit board in which interlayer connection is achieved by the contact of minute pointed protrusions, provided on a first conductive circuit layer, with a second conductive circuit layer, wherein interlayer insulation is achieved by a film having a three-layer structure, comprising a thermoplastic film inserted between a pair of thermosetting adhesive layers, and

wherein the film having a three-layer structure is characterized in that the thickness of the thermosetting adhesive layers is greater than the thickness of the opposing conductive layers, and the thickness of the thermoplastic film is less than 25 µm.

Claim 2: Cancel.

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2. The following is an examiner's statement of reasons for allowance: A multilayer circuit board with the limitations "wherein the film having a three-layer structure is characterized in that the thickness of the thermosetting adhesive layers is **greater than** the thickness of the opposing conductive layers, and the thickness of the thermoplastic film is less than 25 μ m", in conjunction with other claimed limitations, has not been disclosed by prior of record alone or in combination.

3.

4. Claim 1 is directed to an allowable product. As claim 3 is directly depending upon and include all the limitation of allowable claim 1, claim 3, withdrawn from consideration as a result of restriction requirement, is subject to being rejoined. Claim 3 is hereby rejoined and fully examined for patentability.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the Office action mailed on February 25, 05 is hereby withdrawn.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ishwar (I. B.) Patel whose telephone number is (571) 272 1933. The examiner can normally be reached on M-F (8:30 - 5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272 1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ishwar (I. B.) Patel Examiner Art Unit: 2841

July 21, 2005

SUPERVISORY PATENT EXAMINE

TECHNOLOGY CENTER 2800